

ABSTRACT

A plasma display panel having its thermal degradation and VUV deterioration reduced through enhancement of the crystallinity of luminant excitable with vacuum ultraviolet radiation to thereby attain an enhancement of luminous efficiency; and a process for producing the same. The plasma display panel comprises a pair of opposite arranged substrates and, interposed therebetween, a phosphor layer that is excited with vacuum ultraviolet radiation to thereby emit light, the phosphor layer containing spherical fine particles of a luminant excitable with vacuum ultraviolet radiation. The luminant is composed only of a matrix substance and an activator and is highly pure without having any impurity phase. Accordingly, the phosphor layer can be formed while maintaining the luminance of luminant excitable with vacuum ultraviolet radiation, so that the luminescence intensity of phosphor layer can be enhanced. Thus, there can be provided a plasma display of high luminance.